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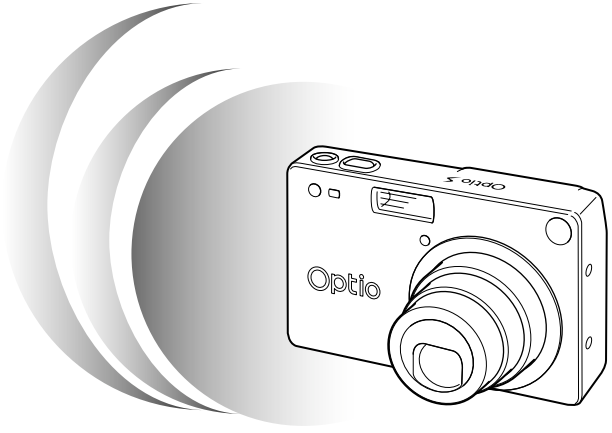
PENTAX™

Digital Camera

Optio S

Operating Manual



To ensure the best performance from your camera, please read the Operating Manual before using the camera.

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Thank you for buying the Pentax Optio S Digital Camera.
Please read this manual before using the camera in order to get the most out of all the features and functions. Keep this manual safe, as it can be a valuable tool in helping you to understand all the camera's capabilities.

Regarding copyrights

Images taken using the Optio S that are for anything other than personal enjoyment cannot be used without permission according to the rights as specified in the Copyright Act. Please take care, as there are even cases where limitations are placed on taking pictures even for personal enjoyment during demonstrations, industrial enterprise or as items for display. Images taken with the purpose of obtaining copyrights also cannot be used outside the scope of use of the copyright as laid out in the Copyright Act, and care should be taken here also.

Regarding trademarks

- The SD logo is a trademark.
- PENTAX is a trademark of PENTAX Corporation.
- Optio is a trademark of PENTAX Corporation.
- All other brands or product names are trademarks of registered trademarks of their respective companies.
- The USB driver uses software developed by inSilicon Corporation.
  Copyright © 2002 inSilicon Corporation. All rights reserved.
- This product supports PRINT Image Matching II.
  When used in combination, PRINT Image Matching II enabled digital still cameras, printers and software help photographers to produce images more faithful to their intentions.
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FOR SAFE USE OF YOUR CAMERA

Sufficient attention has been paid to the safety of this product but please pay particular attention to the warnings indicated by the following symbols during use.

Warning These symbols indicate that it is possible that the user may experience serious difficulties if the warnings are not heeded.

Caution These symbols indicate that it is possible that the user may experience minor or middling difficulties or physical difficulties if the warnings are not heeded.

Warning:

- Do not attempt to take the camera apart or remodel the camera. High voltages are present within the camera, and there is therefore a danger of electric shocks.
- If the inside of the camera should become exposed as a result of, for example, the camera being dropped, please do not under any circumstances touch such exposed portions, as there is a danger of receiving an electric shock.
- Wrapping the strap of the camera around your neck is also dangerous, please take care that small children do not hang the strap around their necks.
- To avoid the risk of it being swallowed by mistake, keep the SD Memory Card/ MultiMediaCard out of the reach of small children. Seek medical attention immediately if accidentally swallowed.
- Use an AC adapter that are of the power and voltage specified for exclusive use with this product. The use of an AC adapter other than that specified exclusively for use with this product may cause fire or electric shocks.
- If the camera emits smoke or a strange smell, or in the event of any other irregularity, stop using the camera immediately, remove the battery or disconnect the AC adapter and contact your nearest Pentax service center. Continued use of the camera may result in fire or electric shock.
- Discontinue use of the AC adapter during thunderstorms. This can cause a fire or electrical shock.

Caution:

- Never try to disassemble, short the battery. Also, do not dispose of the battery in fire, as it may explode.
- Remove the battery from the camera immediately if it becomes hot or begins to smoke. Be careful not to burn yourself during removal.
- Some portions of the camera heat up during use, so please take care, as there is a risk of low temperature burns if such portions are held for long periods of time.
- Do not place your finger on the flash when it is discharging as there is a risk of burns.
- If any of the battery leakage should come in contact with your eyes, do not rub them. Flush your eyes with clean water and get medical attention immediately.
- If any of the battery leakage should come in contact with skin or clothes, wash the affected areas thoroughly with water.

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Care to be Taken During Handling

- Do not clean the product with organic solvents such as thinner or alcohol benzene.
- Places of high temperature and humidity should be avoided. Particular care should be taken regarding vehicles, which can become very hot inside.
- Storing the camera where pesticides and chemicals are handled should be avoided.
  Remove from case and store in a well-ventilated place to prevent the camera from becoming moldy during storage.
- Do not use the camera where it may come in contact with rain, water or any other liquid, because the camera is not weather, water, or liquid resistant. Should the camera get wet from rain, splashing water, or any other liquid, wipe it off immediately with a dry soft cloth.
- Ensure that the camera is not subjected to substantial vibrations, shocks or pressure.
  Place the camera on a cushion for protection when the camera is subjected to the vibrations of a motorbike, car, or ship, etc.
- The liquid crystal display will become black at temperatures of approximately 60°C (140°F) but will return to normal when normal temperatures are returned to.
- The response speed of the liquid crystal display becomes slow at low temperatures.
  This is due to the properties of the liquid crystal and is not a fault.
- Remove dust from the lens and viewfinder using a blower or clean off dust using a lens brush.
- Periodic checks are recommended every 1 to 2 years in order to maintain high-performance.
- When the camera has not been used for a long time, confirm that it is still working properly, particularly prior to taking important pictures (such as at a wedding or during travelling). Pentax is not responsible for consequential damages (costs incurred as a result of taking pictures, loss of benefits that were to be obtained through taking pictures) arising from failure of this product.
- If the camera is subjected to rapid temperature changes, condensation may form on the inside and outside of the camera. Therefore put the camera in a bag or plastic bag, and take the camera out when the difference in temperature has subsided.
- The temperature range in which the camera can be used is 0°C to 40°C (32°F to 104°F).
- Avoid contact with garbage, dirt, sand, dust, water, toxic gases, salt, etc. as this may cause damage to the camera. If rain or drops of water get onto the camera, please wipe dry.
- Refer to “Precautions When Using an SD Memory Card/MultiMediaCard” (p.17) regarding the SD Memory Card/MultiMediaCard.
- Be sure to use the rechargeable lithium-ion battery D-LI8 provided for this camera. If you use any other battery the camera may be damaged or malfunction.

To users of this camera

- There is a possibility that recorded data may be erased or that the camera may not function correctly when used in surroundings such as installations generating strong electromagnetic radiation or magnetic fields.
- The liquid crystal panel used in the LCD display is manufactured using extremely high precision technology. Although the level of functioning pixels is 99.99% or better, you should be aware that 0.01% or fewer of the pixels may not illuminate or may illuminate when they should not. However, this has no effect on the recorded image.
- There is a possibility that the illustrations and the display screen of the LCD monitor in this manual are different form the actual product.

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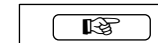
Contents of the Operating Manual

This Operating manual contains the following chapters.

- **Getting Started**
  This chapter explains what you need to do after purchasing the camera before you start taking pictures. Be sure to read it and follow the instructions.
- **Quick Start**
  This chapter explains the simplest way to take pictures and play back images. Use it if you want to start taking pictures straightaway. It also tells you how to use the SD Memory Card/MultiMediaCard.
- **Common Operations**
  This chapter explains common operations such as the functions of the buttons and how to use the menus. For more details, refer to the respective [Taking Pictures], [Recording and Playback], [Playback/Erasing/Editing] and [Settings] chapters.
- **Taking Pictures**
  This chapter explains the various ways of capturing images and how to set the relevant functions, including how to use the virtual mode dial to change the shooting mode and how to select the Picture mode best suited to the shooting scene.
- **Recording and Playback**
  This chapter explains how to record sound only or add a voice memo to an image, and how to play back voice memos.
- **Playback/Erasing/Editing**
  This chapter explains how to play back images on the camera or on a TV and how to delete images.
- **Settings**
  This chapter explains how to set the camera-related functions.
- **Appendix**
  This tells you about the messages displayed on the LCD monitor and what to do in the event of trouble.

The meanings of the symbols used in this Operating manual are explained below.

	indicates the reference page number for an explanation of the related operation.
	indicates information that is useful to know.
	indicates precautions to be taken when operating the camera.
P Picture Mode	The icons above the title show the Capture modes, that can activate the function.

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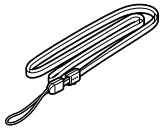
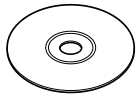
Checking the Contents of the Package

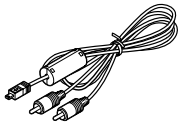
Camera
Optio S



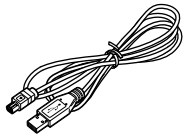
Strap
O-ST5 (∗)



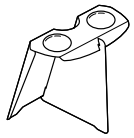
Software (CD-ROM)
S-SW8



AV cable
I-AVC7 (∗)

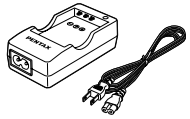


USB cable
I-USB7 (∗)

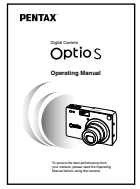


3D Image Viewer
O-3DV1 (∗)

Rechargeable
Lithium-ion battery
D-LI8 (∗)



Battery charger
D-BC8 (∗)



Operating Manual
this manual

About items marked with (∗)

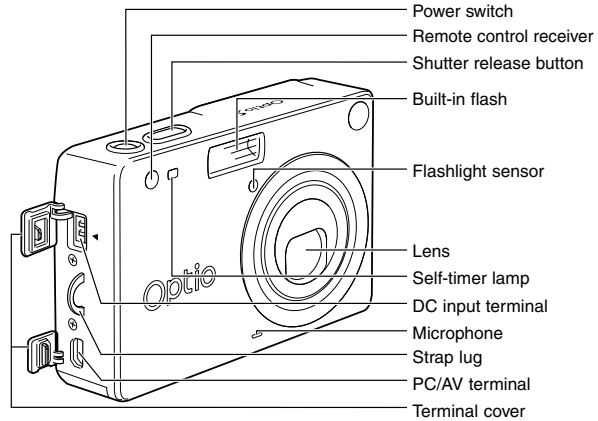
∗ Items marked with (∗) are also available as optional accessories. For other optional accessories, refer to the list on page 130.

✻ **Type of AC plug cord**

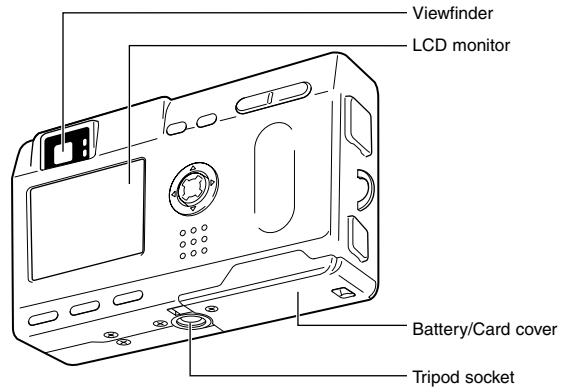
D-CO2A Australia / D-CO2B United Kingdom / D-CO2E Europe / D-CO2H Hong Kong / D-CO2J Japan / D-CO2K Korea / D-CO2U North America, Canada

Name of Parts

Front



Back



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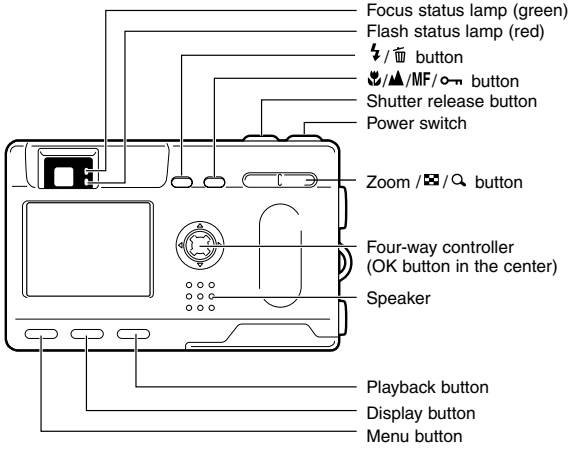
Names of Operating Parts



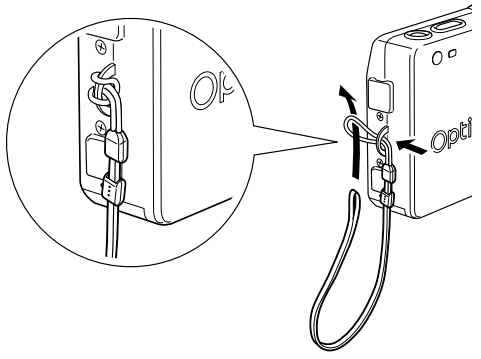
● Guide indications

A guide to available button operation is displayed on the LCD monitor during operation. The buttons are indicated as shown below.

Four-way controller (▲)	▲
Four-way controller (▼)	▼
Four-way controller (◀)	◀
Four-way controller (▶)	▶
MENU button	MENU

Zoom / / button (Only for digital zoom and magnified playback)	
Display button	DISP
button	
button	

Attaching the Strap



Pass the narrow end of the strap through the strap lug and pass the other end through the loop.

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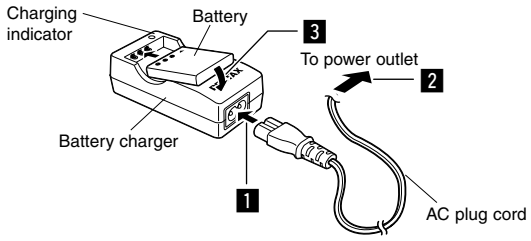
Powering the Camera



Charging the Battery

When using the camera for the first time or when the [Battery depleted.] message is displayed, charge the battery.

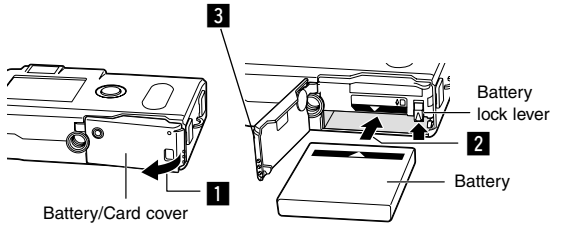
1. **Connect the AC plug cord to the battery charger.**
2. **Plug the AC plug cord into the power outlet.**
3. **Place the battery in the charger so that the PENTAX name is visible.**
   The charging indicator lights red while the battery is charging and changes to green when charging is completed.
4. **When charging is completed, remove the battery from the battery charger.**

memo

- The time required for full charge is about 100 minutes maximum. The appropriate ambient temperature range for charging the battery is 0°C-40°C (32°F to 104°F).
- The charging time may vary depending on the ambient temperature and charging conditions.
- When the battery reaches the end of its service life, the time that the camera can be operated becomes shorter even when the battery is fully charged. In this event, replace the battery.

Caution

- Always charge the battery after purchasing or when it has not been used for a long time.
- Do not use the battery charger D-BC8 to charge the battery other than the rechargeable lithium-ion battery D-LI8, as the charger may overheat or be damaged.
- If the battery is inserted correctly but the charging indicator fails to light, the battery may be faulty. Replace with a new battery.



Installing the Battery

Install the battery provided. When using the camera for the first time, charge the battery before installing.

1. **Slide the battery/card cover in the direction indicated by the arrow and flip the cover open.**
2. **Insert the battery with ▲ symbol facing toward the LCD monitor while using the side of the battery to press the battery lock lever in the direction indicated by the arrow.**
3. **Close the battery/card cover.**
   To remove the battery, release the battery by using your finger to press the battery lock lever in the same direction as when you inserted the battery, and pull the battery out.

memo

If you intend to use the camera continuously for a long period, use of the AC adapter D-AC8 (optional) is recommended. (☞ p.15)

Caution

- Do not remove the battery when the camera is turned on.
- If you do not intend to use the camera for a long time, remove the battery.
- If the camera is left without the battery for a long time, the date setting will be reset.
- Insert the battery correctly. If the battery is incorrectly oriented, it may cause malfunction.
- Do not twist the battery/card cover more than is necessary when it is open. Doing so may damage the cover.

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● **Approximate Operating Time (when the D-LI8 battery is fully charged)**

Number of recordable images : Approx. 160 (when 50% shooting uses flash, LCD monitor ON)

Playback time : Approx. 110 min.

* The description above is based on Pentax measuring conditions and may vary depending on capture mode and shooting conditions.

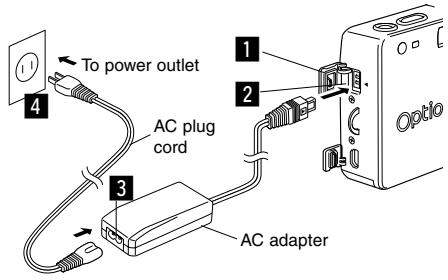
Caution

Generally, battery performance is temporarily deteriorate as temperature decreases. When the camera is used in a cold environment, keep this product warm by holding it in some protection against cold or inside the clothes. Battery performance once deteriorated due to low temperature will be recovered when the batteries are returned to room temperature.

● **Battery Level Indicator**

You can check the battery level by the symbol displayed on the LCD monitor.

(lit green)	: Adequate power remains.
↓	
(lit green)	: Battery is running low.
↓	
(lit yellow)	: Battery is running very low.
↓	
(lit red)	: Battery is exhausted.
↓	
[Battery depleted.]	: After the message is displayed, the camera will turn off.



Using the AC Adapter (optional)

If you intend to use the LCD monitor for a long time or connect the camera to a PC, use of the AC adapter D-AC8 (optional) is recommended.

1. **Make sure that the camera is turned off and open the terminal cover.**
2. **Connect the DC terminal on the AC adapter to the DC input terminal on the camera, being sure to match the ◀ symbols.**
3. **Connect the AC plug cord to the AC adapter.**
4. **Plug the AC plug cord into the power outlet.**

Caution

- Make sure that the camera is turned off when connecting or disconnecting the AC adapter.
- Make sure that the AC plug cord and connecting cord are inserted securely. If the cord becomes disconnected while you are taking pictures, the data may be lost.
- When using the AC adapter D-AC8, be sure to read the operation manual accompanying the AC adapter.
- When connecting the DC terminals, be sure to match the ◀ symbols. Inserting the plugs with too much force may damage them.

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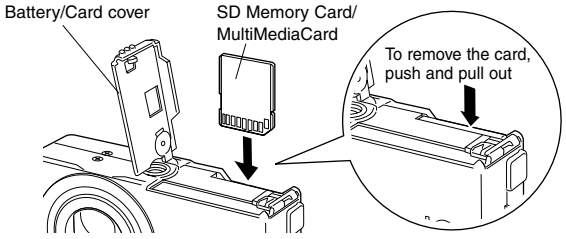
Installing the SD Memory Card/MultiMediaCard



This camera uses an SD Memory Card and MultiMediaCard. Captured images are recorded on the SD Memory Card/ MultiMediaCard if a card is inserted (icon on the LCD monitor), or in the Built-in memory if no card is inserted (icon on the LCD monitor). Make sure that the camera is turned off before inserting or removing the SD Memory Card/MultiMediaCard.

1 Open the battery/card cover.

2 Insert SD Memory Card/MultiMediaCard so the label (the side with the ▲ symbol) is facing toward the LCD monitor and push the card in until it clicks.

3 Close the battery/card cover.
To remove the card, eject the card by pressing it in the direction indicated by the arrow and pull it out.

● Approximate Number of Recordable Images and Recorded pixels/Quality levels

Quality levels / Recorded pixels	Best (★★★)	Better (★★)	Good (★)	Movie images (320 × 240)
2048 × 1536	7	13	19	30 sec. × 3 sets
1600 × 1200	11	20	28	
1024 × 768	26	47	62	
640 × 480	57	89	119	

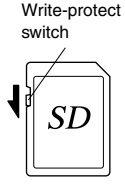
- The above table indicates the number of images when using a 16MB SD Memory Card.
- The above table is based on standard shooting conditions specified by PENTAX and may vary depending on the subject, shooting conditions, capture mode, SD Memory Card, etc.

● Data Backup

Very occasionally, data stored in the Built-in memory becomes unreadable. As a backup measure, we recommend that you download important data to a PC or store the data in a media other than the Built-in memory.

● Precautions When Using a SD Memory Card/MultiMediaCard

- Make sure that the camera is turned off before opening the battery/Card cover.
- The SD Memory Card/MultiMediaCard is equipped with a write-protect switch. Setting the switch to [LOCK] protects the existing data by prohibiting recording of new data, deletion of existing data or formatting of the card.



- Care should be taken if you remove the SD Memory Card/MultiMediaCard immediately after using the camera, as the card may be hot.
- Do not remove the SD Memory Card/MultiMediaCard or turn the camera off while data is being recorded on the card or transferred to PC using USB cable as this may cause the data to be lost or the card to be damaged.
- Do not bend the SD Memory Card/MultiMediaCard or subject it to violent impact. Keep it away from water and store away from high temperature.
- Be sure to format unused SD Memory Card/MultiMediaCard or SD Memory Card/MultiMediaCard that have been used on another camera. Refer to “Formatting a SD Memory Card/MultiMediaCard and the Built-in memory” (p.110) for instructions on formatting.
- Never remove the SD Memory Card/MultiMediaCard during formatting as this may cause the card to be damaged and become unusable.
- The data on the SD Memory Card/MultiMediaCard may be erased in the following circumstances. Pentax does not accept any liability for data that is erased
  - when the SD Memory Card/MultiMediaCard is mishandled by the user.
  - when the SD Memory Card/MultiMediaCard is exposed to static electricity or electrical interference.
  - when the card has not been used for a long time.
  - when the card is ejected, the AC adapter is disconnected or the battery is removed while the data on the card is being accessed.
- The SD Memory Card/MultiMediaCard has a limited service life. If it is not used for a long time, the data on the card may become unreadable. Be sure to make a backup of important data on a PC.
- Avoid using or storing the card where it may be exposed to static electricity or electrical interference.
- Avoid using or storing the card in direct sunlight or where it may be exposed to rapid changes in temperature or to condensation.

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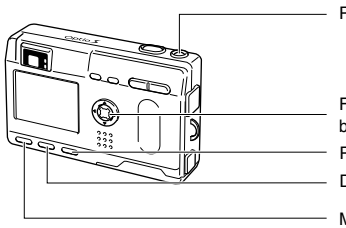
Initial Settings

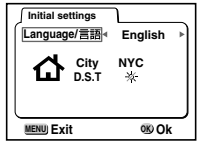


If the initial settings screen appears when you turn the camera on, follow the procedure below to set the display language, Home Town, DST, video output format and current date and time. If the date and time that appear at the bottom right of the LCD monitor when you turn the camera on for the first time is not the current time, follow the instructions for "Changing the Date/Time" (p.114) to set the correct date and time.

Setting the Display Language

You can choose the language in which the menus, error messages, etc. are displayed from the following: English, French, German, Spanish, Italian and Japanese.

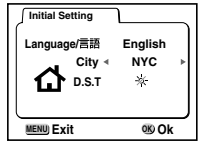
1. **Turn the camera on.**
2. **Use the four-way controller (◀▶) to select the display language.**
   The default setting is English.
3. **Press the four-way controller (▼).**
   The screen for setting the next item will be displayed.



memo
- You can change the setting after it has been made. Refer to "Changing the Display Language" (p.116).

Setting the Home Town

You can choose the city (Home Town) in which you will use the camera.



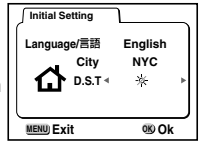
1. **Press the four-way controller (◀▶) to select the desired city (Home Town).**
2. **Press the four-way controller (▼).**
   The screen for setting the next item will be displayed.

memo
- See p.124 for the list of cities and corresponding code names.
- You can change the setting after it has been made. Refer to "Setting the World Time" (p.114).

Setting the D.S.T. Mode

You can choose whether or not to display the D.S.T (Daylight Saving Time) mode.

1. **Use the four-way controller (◀▶) to select ☑ (On) or ☐ (Off).**
   The default setting is ☐ (Off).
2. **Press the four-way controller (▼).**
   The screen for setting the next item will be displayed.



memo
- You can change the setting after it has been made. Refer to "Setting the World Time" (p.114).

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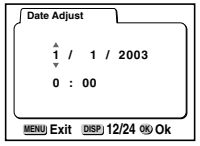
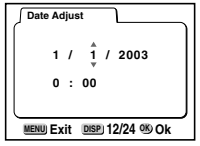
Setting the Date and Time

Set the current date and time.

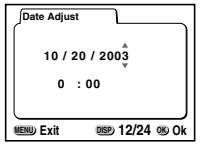
1 **Use the four-way controller (▲▼) to change the month.**



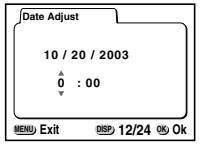
2 **Press the four-way controller (▶).**
▲ and ▼ will be displayed above and below the day.



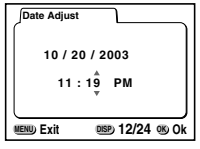
3 **Use the four-way controller (▲▼) to change the day and press the four-way controller (▶).**
▲ and ▼ will be displayed above and below the year.



4 **Repeat Step 3 to change the [year] [hour] and [minutes].**



5 **Use the Display button to select the 12-hour or 24-hour display format.**



6 **When you have finished the settings, press the OK button when the clock reaches 00 seconds.**
The camera is ready to take a picture.
When you set date and time except the initial settings, press the OK button again after pressing the OK button when the clock reaches 00 seconds to return to capture mode.

memo

- When the initial settings screen is displayed, you can cancel the settings operation and switch to Capture mode by pressing the MENU button. If this is done, the initial settings screen will be displayed next time you turn the camera on.
- You can change the settings after they have been made. Refer to “Changing the Date/Time” (p.114).

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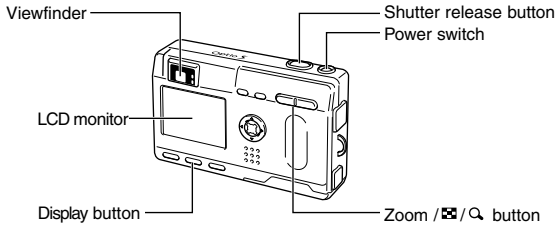
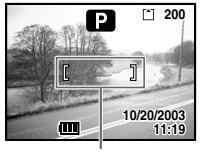
Taking Still Pictures



For the simplest procedure to take still pictures:
The flash fires automatically depending on the light conditions.

1 **Press the power switch.**
The camera will turn on.

2 **Confirm the subject and shooting information on the LCD monitor.**
The focus frame in the middle of the LCD monitor indicates the zone of automatic focusing. You can change the size of the subject by pressing the Zoom button.



Focus Frame

: makes the subject bigger.
: makes the subject smaller.
You can check the size of the subject by looking through the viewfinder.

memo As there is no focus frame in the viewfinder, be sure to check the focusing area on the LCD monitor.

3 **Press the shutter release button.**
The image will be displayed on the LCD monitor for 1 second (Instant Review) and recorded on the SD Memory Card/MultiMediaCard or the Built-in memory. (The green and red lamps on the right of the viewfinder blink alternately while the image is being recorded on the SD Memory Card/MultiMediaCard or the Built-in memory.)

Using the Shutter Release Button

The shutter release button works in a two-step action.

● **Press halfway**
When the shutter release button is pressed lightly (halfway), the focus, exposure and white balance are locked.
The shutter speed and aperture settings are only displayed when the shutter release button is pressed lightly (halfway). You can find the following information on the LCD monitor, the status lamp and the flash lamp.

① **Autofocus frame**
If the subject is in focus, the frame will light green. If the subject is out of focus, the frame will not be displayed.

② **Focus status lamp & Flash status lamp**

status	Focus status lamp (green)	Flash status lamp (red)
lit	Subject is in focus	Flash is charged
blink	Subject is out of focus	Flash is charging

You cannot take a picture while the flash is charging.

● **Pressed down fully**
The picture is taken.

Instant Review

The Instant Review default setting is 1 second. During this time you can delete the image by pressing the button (The [Delete] menu will be displayed.), and selecting [Delete], and then pressing the OK button.
You can also record a voice memo by pressing the OK button during Instant Review (☞ p.78).

Setting the Instant Review Time ☞ p.48

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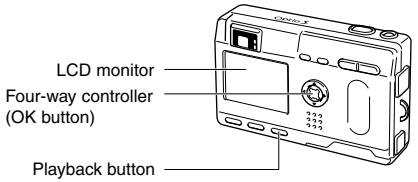
Playing Back Still Pictures



Playing Back Images

You can display the still picture.

1 **Press the Playback button after taking a picture.**
The image taken will be dis-played on the LCD monitor.

Playing Back Previous or Next Images

Still images can be played back one at a time, proceeding either forward or backward.

1 **Press the Playback button after taking a picture.**
An image will be displayed on the LCD monitor.

2 **Press the four-way controller (◀▶).**

◀ displays the previous image.

▶ displays the next image.

Deleting the displayed image.

During this time you can erase the image by pressing the 🗑 button (The Delete screen will be displayed.), press the four-way controller (▲) to select [Delete], and then pressing the OK button. Press the Playback button again or press the shutter release button halfway to return to capture mode.

memo

- When the screen is changed to the playback screen, the image with the largest file number will be displayed first
- You can enlarge the image displayed on the LCD monitor by pressing the Zoom / ⊠/🔍 button.
- In the case of movie pictures, the first frame will be displayed.
- If there are no images stored, the [No image&sound] message will be displayed.

Zoom Display ☞ p.79

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How to View the Recorded Images

Instead of using the Built-in memory, images taken with this camera can be recorded on the SD Memory Card/MultiMediaCard. You can view the images recorded on the card on the camera itself, transfer them to your PC and print them out.

Viewing images on the camera

One of the advantages of a digital camera is that it enables you to view your pictures immediately after you have taken them. You can check the composition and brightness and take the picture again if you are not satisfied.

Playing Back Still Pictures ☞ p.79

Viewing images on a TV

If you want to show your pictures to friends, you can display them on your TV monitor. To view images on your TV, connect the camera to the TV with the video cable.

Viewing Images on a TV ☞ p.88

Viewing images on a PC

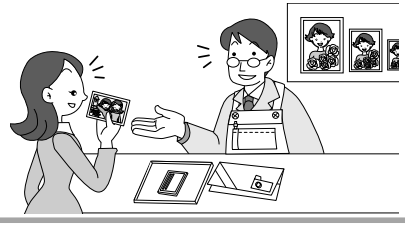
Once you have installed the USB driver on your PC, you can view recorded images and edit them on your PC just by connecting the camera to the PC with the USB cable and downloading the images. Or you can remove the SD Memory Card/MultiMediaCard from the camera and transfer the data to your PC using a card reader. If you use a laptop computer, you can transfer the image data by fitting the SD Memory Card/MultiMediaCard into the card adapter and inserting the card adapter into the card slot. (To remove the SD Memory Card/MultiMediaCard from the camera and transfer images using another device, refer to the operating manual for the device.)

Viewing Images with your PC ☞ p.96
Viewing Images with your Macintosh ☞ p.106

Printing images by a printing service

Prints of images recorded on the SD Memory Card/MultiMediaCard can be ordered in the same way as with conventional photographs by taking the SD Memory Card/MultiMediaCard to a store that performs printing.
The number of prints can be specified and dates can be included in the prints if DPOF (Digital Print Order Format) is set before taking the SD Memory Card/MultiMediaCard to a store that performs DPOF printing.

Setting the Printing Service ☞ p.89



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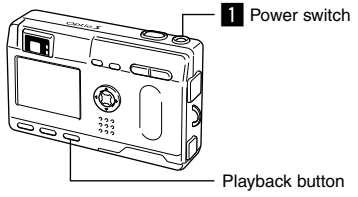
Turning the Camera On and Off



1 Press the power switch. (The power switch is illuminated by a green light.)
The camera will turn on.
When the camera is turned on, the lens extends.
Press the power switch again to turn the camera off.

Playback Only Mode

Press the power switch on while pressing the Playback button activates the Playback Only mode.

- When the camera turns on in Playback Only mode, the lens does not extend.
- To switch from Playback Only mode to Capture mode, turn the camera off and then turn it on again.

Playing Back Still Pictures ☞ p.79

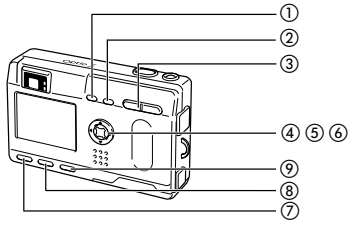
Voice Recorder Mode

Holding the power switch down for more than 2 seconds activates the Voice Recording Only mode. (The power switch is illuminated by a red light.)

- To switch from Voice Recording Only mode to Capture Only mode or Playback Only mode, turn the camera off and then turn it on again.

Recording Sound Only ☞ p.76

Using the Button Functions



Capture Mode

① **ϟ button**
Changes the flash mode. (☞ p.39)

② **MF button**
Changes the focus mode as follows. (☞ p.37)
Macro mode (☞ p.37) Super macro mode (☞ p.37)
Infinity-landscape mode (☞ p.37) Manual focus mode (☞ p.38)
Move focusing area (☞ p.38)

③ **Zoom button**
Changes the size of the subject. (☞ p.22)

④ **Four-way controller (◄►)**
Changes the EV compensation in all modes. (☞ p.52)
The function registered on the four-way controller can be changed in the Fn settings. (☞ p.120)
Adjusts the ratio when the digital filter is set to Slim Filter on the virtual mode dial. (☞ p.60)

⑤ **Four-way controller (▲▼)**
(▲) Selects self-timer mode, remote control mode and continuous shooting mode.
(▼) Displays the virtual mode dial and changes the shooting mode
Adjusts the focus in MF mode. (☞ p.38)

⑥ **OK button**
Determines the Menu items. (☞ p.32)

⑦ **MENU button**
Displays the active menus in [Rec. Mode], [Playback] and [Set-up]. (☞ p.32)

⑧ **Display button**
Changes the information displayed on the LCD monitor. (☞ p.40, 81)

⑨ **Playback button**
Switches to Playback mode. (☞ p.24).

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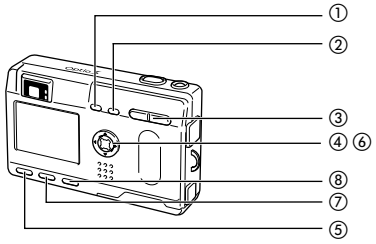


Playback Mode

① **button**
Deletes the image. (☞ p.84)

② **button**
Protects the image from erasure. (☞ p.87)

③ **Zoom / / button**
displays nine images at once. (☞ p.82)
– + changes the size of the Zoom Display image, displayed on the LCD monitor. (☞ p.79)

④ **Four-way controller (◀▶)**
(▲) Sets the DPOF (☞ p.89) for the print service.
(◀▶) Displays the image you wish to view. (☞ p.25)

⑤ **MENU button**
Displays the active menus in [Playback] and [Set-up]. (☞ p.32)

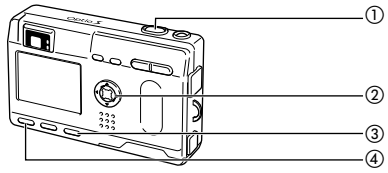
⑥ **OK button**
Determines the Menu items. (☞ p.32)

⑦ **Display button**
Changes the information displayed on the LCD monitor. (☞ p.40, 81)

⑧ **Playback button**
Switches to Playback mode. (☞ p.24)

memo

- When the camera is turned on in Playback Only mode, pressing the Playback button does not change the mode to the Capture mode.
  Turn the camera off and turn it on again to switch from playback only mode to capture mode.



Voice Recorder Mode

① **Shutter release button**
When pressed, starts recording, and when pressed again, stops recording.

② **Four-way controller**
(▲) Starts playback. When pressed during playback, pauses playback.
(◀▶) Selects a recorded file before playback.
If there are no recorded indexes:
When (◀) is pressed during playback, rewinds 5 seconds.
When (▶) is pressed during playback, advances 5 seconds.
If there are recorded indexes:
When (◀) is pressed during playback, plays back starting from the previous index.
When (▶) is pressed during playback, plays back starting from the next index.

③ **Playback button**
Switches between Voice Recorder Mode and Playback mode.

④ **MENU button**
When pressed during recording, an index can be added.

memo

When the shutter release button is pressed for more than 1 second, recording continues for as long as the button is held down and stops when the button is released.

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Setting the Menus

When you press the MENU button, the menus are displayed on the LCD monitor. You can set functions, save the settings, and change the camera settings on these menus.

How to Set the Menus

When you are making settings from a menu, a guide to operation is displayed on the LCD monitor.

1 **Press the MENU button.**
The menu screen will be displayed. The selected area will be displayed in a green frame.

2 **Press the four-way controller (◀▶).**
Use the four-way controller (◀▶) to select the menu screen.

3 **Use the four-way controller (▲▼) to select an item.**
Use the four-way controller (▲▼) to move the frame up or down.

4 **Use the four-way controller (◀▶) to change the setting.**

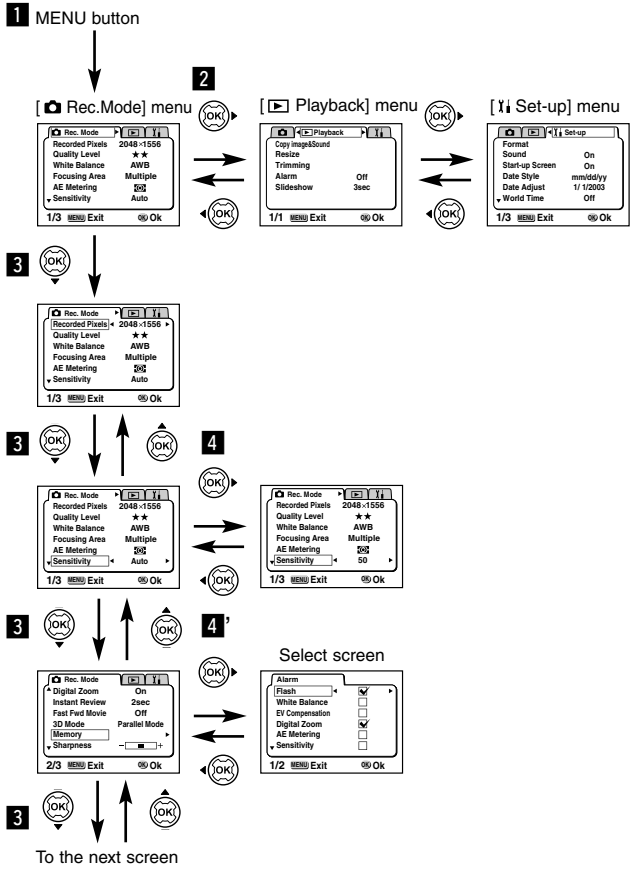
4' **If there is a Select screen, use the four-way controller (▶) to move to the Select screen.**
When you have finished making the settings, press the OK button to return to the menu.

5 **Press the OK button.**
The settings will be saved and the screen will return to capture or playback status.

Caution

- If you press any buttons except the OK button before press the OK button and leave the menu screen, any changes to setting will not be saved.
- Even if you press the OK button and leave the menu screen, if you remove the battery before turning off the camera or do not otherwise turn off the camera correctly, any changes to setting will not be saved.

Example of menu operation



memo

- If you press the shutter release button halfway to leave the menu screen and switch to Capture mode (playback mode in playback only mode), any changes to the setting will not be saved.
- When you display the menu from Capture mode, the [Rec. Mode] menu will be displayed, and when you display the menu from Playback mode, the [Playback] menu will be displayed.

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Menu List

● [Rec.Mode] Menu

○: Adjustable
×: Any changes made are invalid.

Item	Description	Default Setting	P Panorama Picture Mode / 3D USER		Reference
Recorded Pixels	For selecting the size of recorded pixels.	2048 × 1536	○	320 × 240	p.41
Quality Level	For selecting the image compression rate.	★★	○	×	p.42
White Balance	For adjusting the color balance according to lighting.	AWB (Auto)	○	○	p.43
Focusing Area	For changing the Area of the auto-focus.	[ ] (Multiple)	○	×	p.45
AE Metering	For setting the metering method to determine the exposure.		○	○	p.46
Sensitivity	For setting the Sensitivity.	Auto	○	×	p.47
Digital Zoom	For taking digital zoom pictures.	On	○	○	p.71
Instant Review	For setting the instant review time.	1 sec	○	×	p.48
Fast Fwd Movie	For setting the startup, shutter and button operation sounds.	Off	×	○	p.73
3D Mode	For taking 3D pictures.	Parallel mode	○ (3D only)	×	p.63
Memory	For saving the shooting function settings when the camera is turned off.	Normal	○	○	p.74
Sharpness	For setting the sharpness.	Normal	○	×	p.49
Saturation	For setting the saturation.	Normal	○	×	p.50
Contrast	For setting the contrast.	Normal	○	×	p.51
EV Compensation	For adjusting the exposure between –2.0 and +2.0.	±0.0	○	○	p.52

memo
- For "×" items, you can change the setting on the menu screen, however, any changes are invalid in actual operation.

● [Playback] Menu

Item	Description	Reference
Copy image & Sound	For copying files between the Built-in memory and the SD Memory Card/MultiMediaCard.	p.95
Resize	Changes the size of images	p.92
Trimming	For trimming images	p.94
Alarm	For setting the alarm to ring at a specific time	p.122
Slideshow	Recorded images are played successively.	p.83

● [Set-up] Menu

Item	Description	Reference
Format	For formatting the SD Memory Card/MultiMediaCard	p.110
Sound	For setting the startup, shutter, button operation sounds, and the volume	p.111
Start-up Screen	For setting the Start-up screen when the camera is turned on.	p.112
Date Style	For setting the date style	p.113
Date Adjust	For adjusting the date and time	p.114
World Time	For setting the world time	p.114
Language/ 言語	For changing the language in which menus and messages are displayed	p.116
Video Out	For setting the video output format	p.117
Sleep Timeout	For setting the power saving function	p.118
Auto Power Off	For turning off the power automatically	p.118
Quick Delete	When this option is turned on, the Delete screen is displayed with [Delete] or [All Images] selected.	p.119
Quick Zoom	For playing back images at the maximum zoom size with the Zoom button pressed only once	p.119
Fn Setting	For registering a function on the four-way controller (◄ ►)	p.120
Reset	For returning the camera settings to defaults	p.121

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Setting the Shooting Functions

Changing the Mode

Capture mode is for taking pictures and Playback mode is for playing back or erasing images.

Switching between Capture Mode and Playback Mode

- To change from Capture mode to Playback mode, press the Playback button.
- To change from Playback mode to Capture mode, press the Playback button or the shutter release button halfway.

Selecting the Capture Mode

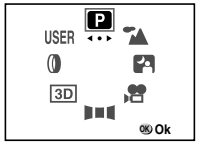
Display the virtual mode dial and select the shooting mode. There are 8 modes to choose from.

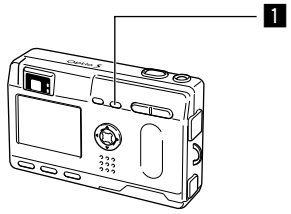
P	Standard mode	Lets you set all the functions.	p.22
(Default setting)	Picture mode	Lets you set the functions according to the situation. There are 7 available modes in Picture mode.	p.54
	Night-Scene mode	Lets you take dark scenes such as night views.	p.55
	Movie Picture mode	Lets you take movies.	p.56
	Panorama Assist mode	Lets you take panorama pictures.	p.58
3D	3D Image mode	Lets you take 3D pictures.	p.63
	Digital Filter mode	Lets you set a color filter.	p.60
USER	USER mode	Lets you activate the preset function settings simply by turning the camera on.	p.62

1 Press the four-way controller (▼) in Capture mode.
The virtual mode dial appears.

2 Move the icon for the desired mode to the top of the dial using the four-way controller (◄ ►).
The icon will be surrounded by a green frame.

3 Press the OK button.





Selecting the Focus Mode

● **Focus Mode**

(No icon)	Autofocus mode	The camera is focused on the subject in the autofocus area when the shutter release button is pressed halfway. Use this mode when the distance to the subject is more than 40 cm (1.3 ft).
	Macro mode	This mode is used when the distance to the subject is approx. 18 cm – 50 cm (7 inch – 20 inch). When the shutter release button is pressed halfway, the camera is focused on the object in the autofocus area.
	Super macro mode	This mode is used when the distance to the subject is approximately 6 cm – 20 cm. (2.4 inch – 8 inch). The camera is focused on the subject in the autofocus area continuously pressing with the shutter release button halfway.
	Infinity-landscape mode	This mode is used for taking distant objects.
MF	Manual focus mode	Adjust focus manually by the four-way controller (▲▼).
	Focusing area mode	The position of the autofocus area is changed.

1 Press the ▲ or MF button in Capture mode.
The focus mode changes each time the button is pressed and the setting is displayed on the LCD monitor.
The camera is ready to take the picture in the set focus mode.

memo

- The default setting of the focus mode is [Autofocus mode].
- The zoom position is fixed at the middle and the flash will not discharge in [Super Macro Mode].
- When the movie picture mode (☞ p.56) is selected, the focus mode is set to Autofocus mode, Infinity-landscape mode and Manual focus mode.
- The flash does not fire in Super Macro mode.

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Caution

If you take a picture while looking through the viewfinder when the focus mode is set on Macro and Super Macro, the range of the resulting picture will differ from what was seen in the viewfinder.
Be sure to check the image on the LCD monitor.

Manual Focus

When the mode is set to **MF**, the central portion of the picture is enlarged to full screen on the LCD monitor for focus adjustment. Use the four-way controller to adjust the focus while watching the indicator on the monitor.

- For distant focus
- For closer focus

After the focus is set, press any buttons except the four-way controller (▲▼) or take a finger off from the four-way controller (▲▼). The screen returns to the normal display two seconds later.

memo

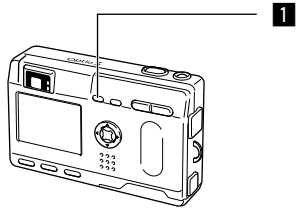
- The central portion of the picture is not enlarged when the digital zoom is enabled.

Saving the Focus Mode ☞ p.74

Changing the Focusing Point

In autofocus mode, you can change the focusing point by moving the autofocus area.

1. **In focusing area mode, press the four-way controller (▲▼◀▶) to move the autofocus area.**
2. **Press the shutter release button.**
   To return the autofocus area to its original location, press the MF button again.



Selecting the Flash Mode

(No icon)	Auto flash	The flash discharges automatically depending on the light conditions.
	Flash Off	The flash will not discharge, regardless of the brightness.
	Flash On	The flash discharges regardless of the brightness.
	Auto flash + Red-eye Reduction	This mode reduces the phenomenon of red eyes caused by the light from the flash being reflected in the subject's eyes. The flash discharges automatically.
	Flash On + Red-eye Reduction	This mode reduces the phenomenon of red eyes caused by the light from the flash being reflected in the subject's eyes. The flash will discharge regardless of lighting conditions.

memo

- The flash is off when the Capture mode is set to , continuous shooting or infinity-landscape.
- In [Auto flash + Red-eye Reduction] and [Flash On + Red-eye Reduction] modes, the flash discharges once to make the pupils of the subject's eyes smaller shortly before the main flash discharges to take the picture.

1. **Press the button in Capture mode.**
   The flash mode changes each time the button is pressed and the icon is displayed on the LCD monitor.
   The camera is ready to take the picture in the set flash mode.

Status of the Focus Status Lamp and Flash Status Lamp ☞ p.23
Saving the Flash Mode ☞ p.74

Caution

Using the flash in Macro mode may cause the image to be overexposed.

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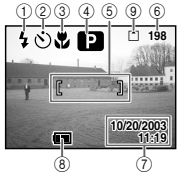
Displaying Shooting Information in Capture Mode

You can display information on the LCD monitor when shooting. The display mode can be changed by pressing the Display button.

Display On

Shooting information is displayed.

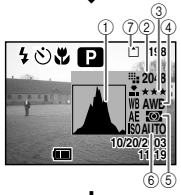
① Flash mode ② Shooting mode
③ Focus mode ④ Capture mode
⑤ AF frame
⑥ Number of recordable images
⑦ Date & time ⑧ Battery indicator
⑨ Card/Built-in memory



Histogram Display

The brightness distribution of the image is displayed.
The x-axis shows the brightness (darkest at the left end and brightest at the right end) and the y-axis shows the pixel numbers.

① Histogram ② Recorded pixels
③ Quality level ④ White balance
⑤ AE metering ⑥ Sensitivity
⑦ Card/Built-in memory



Display Off

No shooting information is displayed.

- The AF frame is displayed in Autofocus mode.
- If any of the modes are changed such as Flash mode, the mode you have changed is displayed for a few seconds.

LCD Monitor Off

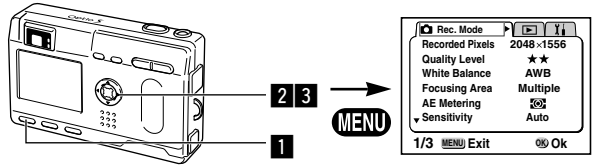
Turn off the LCD monitor.
(The LCD monitor is not turned off in Playback mode.)

Display On

Caution

- The display cannot be turned off in , 3D , and mode.

Saving the Display Mode ☞ p.74



P Picture Mode 3D USER

Selecting the Recorded Pixels

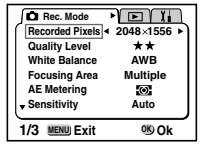
You can choose the number of recorded pixels from [2048 × 1536], [1600 × 1200], [1024 × 768] and [640 × 480].

2048 × 1536	Suited for printing on A4 paper (8 1/2 × 11)
1600 × 1200	Suited for printing on A5 paper
1024 × 768	Suited for printing on postcards
640 × 480	Suited for attaching to E-mails or for creating websites

1 Select [Recorded Pixels] on the [Rec.Mode] menu.

2 Use the four-way controller (◀▶) to change the size.

3 Press the OK button.
The camera is ready to take the picture.



memo

- The recorded pixels is fixed at 320 × 240 pixels in the movie picture mode.
- If you select a large size, the picture may appear distinct when it is printed out.

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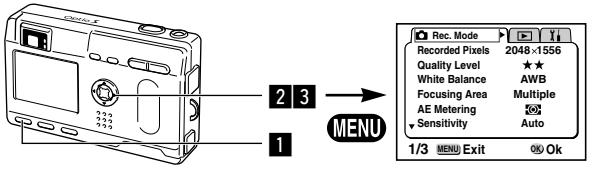


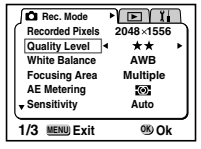
P Picture Mode

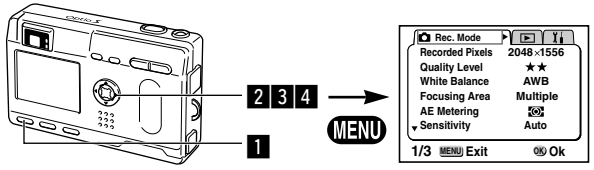
Selecting the Quality Levels

You can choose the image compression rate. The more stars, the clearer the quality and the larger the volume.
The recorded pixels setting also changes the picture volume.

★★★	BEST	Lowest compression ratio. Suited for photo prints.
★★	BETTER	Standard compression ratio. Suited for viewing the image on a computer screen.
★	GOOD	Highest compression ratio. Suited for attaching to emails or creating webpages.

1. **Select [Quality Level] on the [Rec.Mode] menu.**
2. **Use the four-way controller (◀▶) to select the size.**
3. **Press the OK button.**
   The camera is ready to take the picture.





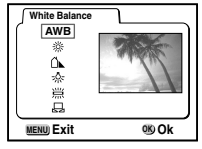
P Picture Mode

Adjusting the Color Balance according to Lighting (White Balance)

You can take pictures in natural colors by adjusting the white balance according to the light conditions at the time of shooting.

AWB	Auto	The camera adjusts the white balance automatically.
☼	Daylight	Use this mode when taking pictures outside in sunlight.
⌂	Shade	Use this mode when taking pictures outside in the shade.
☼	Tungsten Light	Use this mode when taking pictures under electric or other tungsten light.
☼	Fluorescent Light	Use this mode when taking pictures under fluorescent light.
✎	Manual	Use this mode when taking pictures by adjusting the white balance manually.

1. **Select [White Balance] on the [Rec.Mode] menu.**
2. **Press the four-way controller (▶).**
   The white balance screen will be displayed.
3. **Use the four-way controller (▲▼) to select the setting.**
4. **Press the OK button twice.**
   The camera is ready to take the picture.



Saving the White Balance ☞ p.74

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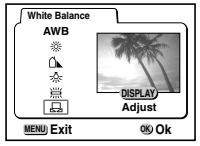
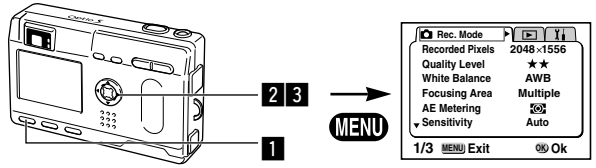
Manual Setting



1. **Select [ ] (manual) on the white balance screen.**
2. **Point your camera at a blank sheet of paper so that it fills the screen.**
3. **Press the Display button.**
   The white balance is automatically adjusted, [Adjust] is displayed on the LCD monitor and the display returns to the menu screen.
4. **Press the OK button.**
   The camera is ready to take the picture.

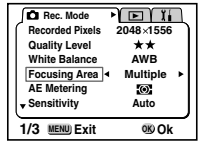


P Picture Mode 3D USER

Changing the AF Area (Focusing Area)

You can change the angle of the autofocus area.

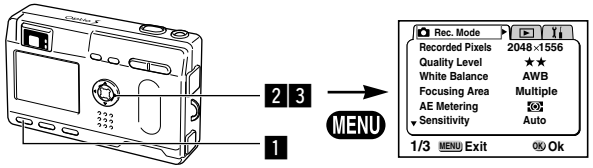
Multiple	Normal range
Spot	The autofocus range becomes smaller. (Spot)



1. **Select [Focusing Area] on the [Rec.Mode] menu.**
2. **Use the four-way controller (◀▶) to change the setting.**
3. **Press the OK button.**
   The camera is ready to take the picture.

memo The AF area does not appear in the viewfinder. Always check the focusing area on the LCD monitor.

Saving the Focusing Area Setting ☞ p.74



P Picture Mode

Setting the Light Metering Range to Determine the Exposure (AE Metering)

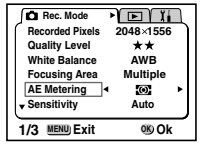
You can choose which part of the screen to use to measure the brightness and determine the exposure.

	Multi segment	The exposure is determined by the entire screen.
	Center-weighted	The exposure is determined mainly by the center of the screen.
•	Spot	The exposure is determined by the small area in the center of the screen only.

1 Select [AE Metering] on the [Rec.Mode] menu.

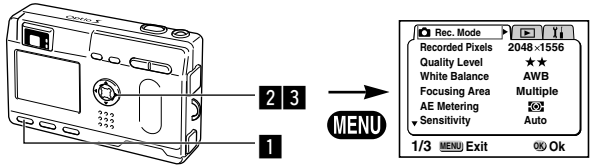
2 Use the four-way controller (◀▶) to change the metering mode.

3 Press the OK button.
The camera is ready to take the picture.



Saving the AE Metering Method ☞ p.74

memo When • is selected, the metering point moves in correspondence with movement of the focusing area.



P Picture Mode

Setting the Sensitivity

You can select the sensitivity to suit the brightness of the surroundings.

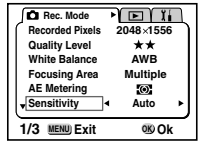
● **Sensitivity**

Auto	The camera sets the sensitivity automatically.
50 100 200	• The lower the sensitivity, the sharper the image and the less noise. The shutter speed will be slower in low light conditions. • The higher the sensitivity, the faster the shutter speed in low light conditions to reduce camera shake, but the image may be affected by noise.

1 Select [Sensitivity] on the [Rec.Mode] menu.

2 Use the four-way controller (◀▶) to select the sensitivity.

3 Press the OK button.
The camera is ready to take the picture.



Saving the Sensitivity ☞ p.74

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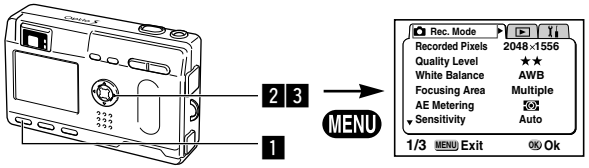
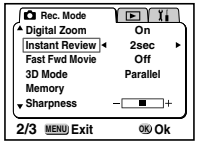


P Picture Mode

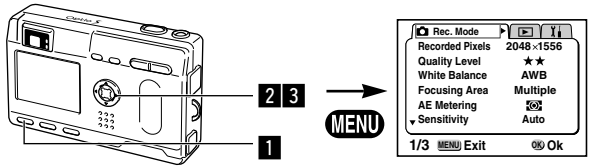
Setting the Instant Review time (Instant Review)

You can choose the Instant Review time from 0.5sec., 1sec., 2sec., 3sec., 4sec., 5sec. or off (no display).

1. **Select [Instant Review] on the [Rec.Mode] menu.**
2. **Use the four-way controller (◀▶) to select the display time.**
3. **Press the OK button.**
   The camera is ready to take the picture.



memo The Instant Review setting is saved when the camera is turned off.

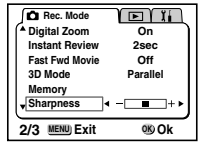


P Picture Mode

Setting the Image Sharpness (Sharpness)

You can choose whether you want the image to have sharp or soft outlines.

1. **Select [Sharpness] on the [Rec.Mode] menu.**
2. **Use the four-way controller (◀▶) to change the setting from [Normal] to [Hard (+)] or [Soft (–)].**
3. **Press the OK button.**
   The camera is ready to take the picture.



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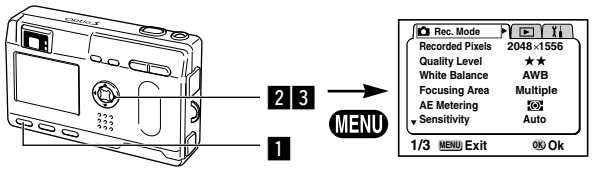
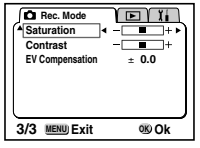


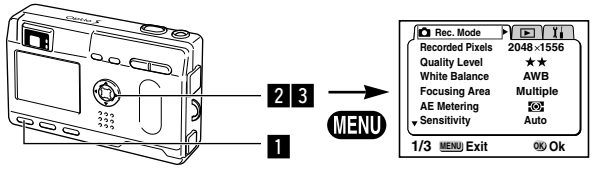
P Picture Mode 3D USER

Setting the Color Saturation (Saturation)

You can set the color saturation.

1. **Select [Saturation] on the [Rec.Mode] menu.**
2. **Use the four-way controller (◄►) to change the setting from [Normal] to [Hard (+)] or [Soft (–)].**
3. **Press the OK button.**
   The camera is ready to take the picture.



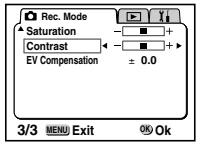


P Picture Mode 3D USER

Setting the Image Contrast (Contrast)

You can set the image contrast.

1. **Select [Contrast] on the [Rec.Mode] menu.**
2. **Use the four-way controller (◄►) to change the setting from [Normal] to [Hard (+)] or [Soft (–)].**
3. **Press the OK button.**
   The camera is ready to take the picture.



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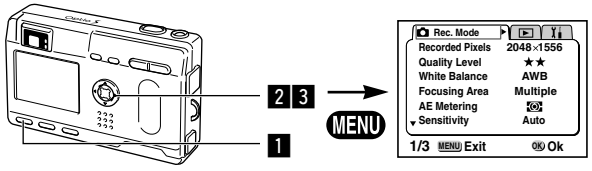
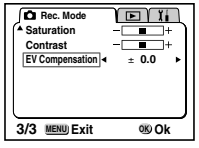


P Picture Mode

EV Compensation

You can take pictures that are intentionally over-exposed or under-exposed.



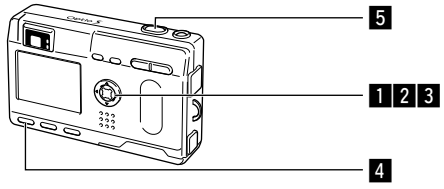
1. **Select [EV Compensation] on the [Rec. Mode] menu.**
2. **Use the four-way controller (◀▶) to select the EV setting in the range of –2.0 EV to +2.0 EV in 1/3 EV steps.**
   To brighten, set positive +.
   To darken, set negative –.
3. **Press the OK button.**
   The camera is ready to take the picture.

Saving the EV Compensation Value ☞ p.74

memo EV Compensation is registered on the four-way controller (◀▶) in the Fn default settings. ☞ p.120

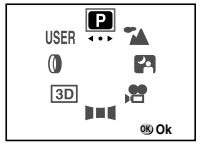
Caution The light metering method is either center-weighted or spot when the EV setting is adjusted.

Taking Pictures



Setting the Functions (Standard Mode)

In Standard mode (P), you can set all the camera functions.



1. **Press the four-way controller (▼) in Capture mode.**
   The virtual mode dial appears.
2. **Use the four-way controller (◀▶) to select Standard mode (P).**
3. **Press the OK button.**
4. **Set the functions you want to use.**
   Refer to “Setting the Shooting Functions” (p.36 to p.52) for details of how to set the functions.
5. **Press the shutter release button.**
   The picture is taken.

Taking Still Pictures ☞ p.22

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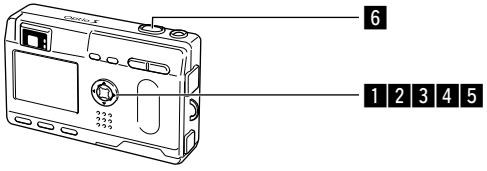


Selecting the Picture Mode According to the Shooting Scene (Picture mode)

You can select the Picture mode according to the shooting scene.

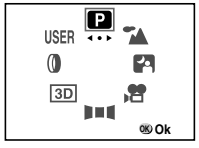
● **Picture mode**

There are nine available modes in Picture mode.

	Landscape	Enables to take landscape photos with bright colors.
	Flower	Enables to take flower photos bright in color.
	Portrait	Enables to take portraits with spatial effect, by emphasizing the person.
	Self-Portrait	Enables you to take pictures of yourself or to be included in pictures.
	Surf & Snow	Enables to take clear photos at dazzling places like beaches and snow covered mountains.
	Autumn Colors	Enables you to take colorful photos of trees in autumn.
	Sunset	Enables to reproduce beautiful colors for sunrise and sunset photos.

1 Press the four-way controller (▼) in Capture mode.
The virtual mode dial appears.

2 Use the four-way controller (◀▶) to select the Picture mode dial ( ).
The default setting is ( ).
The Picture mode dial appears.



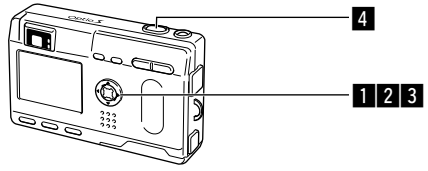
3 Press the four-way controller (▼) to select the desired mode.

4 Use the four-way controller (◀▶) to move the icon for the Picture mode you want to set at the top of the dial.

5 Press the OK button.
The Picture mode is selected.

6 Press the shutter release button.
The picture is taken.

memo In Picture mode, the EV compensation, saturation, contrast, sharpness and white balance are automatically set to their default settings. You can change the settings.

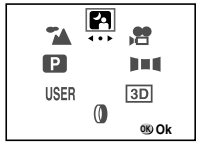


Taking Pictures of Dark Scenes (Night-Scene Mode)

You can choose settings appropriate for taking pictures of dark scenes, such as nightscapes.

1 Press the four-way controller (▼) in Capture mode.
The virtual mode dial appears.

2 Use the four-way controller (◀▶) to move the icon for night-scene mode ( ) at the top of the dial.



3 Press the OK button.

4 Press the shutter release button.
The picture is taken.

Using the shutter release button ☞ p.23
Playing back still pictures ☞ p.24

Caution The shutter speed is slower when taking pictures of dark scenes. To prevent camera shaking, secure the camera on a tripod or other surface.

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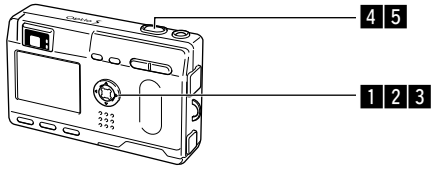
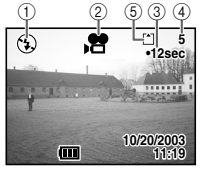


Taking Movie Pictures (Movie Picture Mode)

This mode enables you to take moving images and sound. The maximum length of one recording (1 set) is approximately 30 seconds.

1 **Press the four-way controller (▼) in Capture mode.**
The virtual mode dial appears.

2 **Use the four-way controller (◄►) to display the Movie Picture mode at the top of the dial.**



3 **Press the OK button.**
① Flash off mark ② Movie picture mode icon
③ Recordable time for next set ④ Number of remaining sets
⑤ Card/Built-in memory

4 **Press the shutter release button.**
Shooting will start. You can change the size of the image using the Zoom button.
: makes the image bigger.
: makes the image smaller.

5 **Press the shutter release button.**
Shooting will end.

Keeping the shutter release button pressed

If you keep the shutter release button pressed for more than one second, pictures will be taken for as long as you keep the button pressed. Shooting stops when you take a finger off from the shutter release button.

Playing Back Movie Pictures ☞ p.80

Caution

- The flash will not discharge in Movie Picture mode.
- Infinity-landscape shooting is not possible in Movie Picture mode.
- The LCD monitor cannot be turned off in Movie Picture mode.
- Sound cannot be recorded when [Fast Fwd Movie] is set to ON.
- Autofocus mode, Infinity-landscape mode and Manual focus mode can be set in Movie Picture mode.
- Only the digital zoom can be used to change the size of the image in Movie Picture mode. Use the LCD monitor when recording a movie picture.

Fast Forward Movie Mode ☞ p.73

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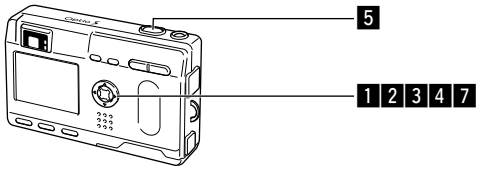

Taking Panorama Pictures (Panorama Assist Mode)

You can take a number of images and join them together to form a panorama picture. The panorama software provided with the camera and a computer that supports Windows are necessary for joining the images.

1 **Press the four-way controller (▼) in Capture mode.**
The virtual mode dial appears.

2 **Use the four-way controller (◀▶) to display the Panorama Assist mode ( ) at the top of the dial.**

3 **Press the four-way controller (▼).**

4 **Use the four-way controller to choose the direction in which the images will be joined.**
◀ Joins the images at the left.
▶ Joins the images at the right.
▲ Joins the images at the top.
▼ Joins the images at the bottom.
The example shows the images when ▶ is selected.

5 **Take the first picture.**
Press the shutter release button to take the first image. The right edge of the image is displayed in transparent form on the left of the LCD monitor.

6 **Move the camera to the right and take the second picture.**
Repeat the above procedure to take the third and subsequent pictures.

7 **Press the OK button.**
The screen returns to Step **4**.

memo To cancel Panorama mode, change to another mode.

Caution
- The camera cannot join the images. Use the panorama software provided with the camera.
- Continuous shooting is not possible in Panorama Assist mode.
- A computer that supports Windows is necessary for joining images to form a panorama picture. (The software provided with the camera is not supported by Macintosh.)

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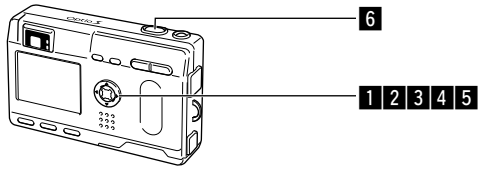

Taking Pictures with Digital Filters (Digital Filter Mode)

You can take pictures using digital filters. The filters consist of color filters such as red, blue and green, and a slim filter that produces a slim effect.

● **Color Filters**
Eight color filters are provided: black-and-white, sepia, red, pink, violet, blue, green and yellow. When you select a color filter in the Digital Filter mode, the display on the LCD monitor is filtered with the selected color, and the pictures are taken in that color.

● **Slim Filter**
You can set the degree of slimness in 8 steps vertically or horizontally.

1. **Press the four-way controller (▼) in Capture mode.**
   The virtual mode dial is displayed.
2. **Use the four-way controller (◀▶) to select the Digital Filter mode .**
3. **Press the four-way controller (▼).**
   The filter options screen is displayed.
4. **Use the four-way controller (▲▼) to select the filter you want to use.**
5. **Press the OK button.**
6. **Press the shutter release button.**
   The picture is taken.

Setting the slim filter

When you select the slim filter in Digital Filter Mode, the slimness setting screen is displayed.

1. **Use the four-way controller (◀▶) to set the slimness.**
   Decreases slimness.
   Increases slimness.
2. **Press the OK button.**
   The camera returns to digital filter mode.

Caution

- The digital zoom cannot be used when the slim filter is selected.

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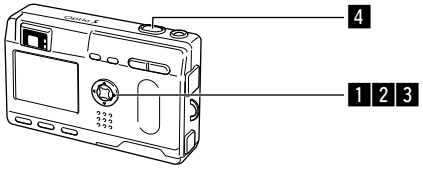
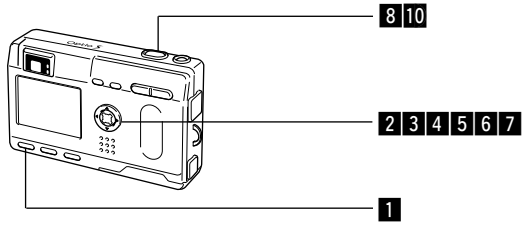


Using Preset Function Settings (User Mode)

In User mode, you can take pictures using the functions and settings registered in advance in User mode.

1. **Press the four-way controller (▼) in Capture mode.**
   The virtual mode dial appears.
2. **Use the four-way controller (◄►) to select User mode (USER).**
3. **Press the OK button.**
4. **Press the shutter release button.**
   The picture is taken.

Registering Functions in User Mode ☞ p.75

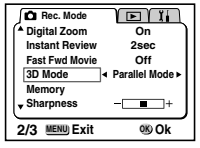


Taking Stereo Pictures (3D Image Mode)

You can take 3D pictures using the LCD monitor and view them by the parallel method or cross method (p.65). If you print out the 3D pictures and look at them through the 3D image viewer provided, the image will appear in three dimensions.

Select the viewing mode.

The default setting is [Parallel]. If you do not need to switch to [Cross], go to Step 5.



1. **Press the MENU button.**
   The [Rec. Mode] menu will be displayed.
2. **Press the four-way controller (▲▼) to select [3D Mode].**
3. **Use the four-way controller (◄►) to select [Parallel].**
   To view the picture with the 3D image viewer, select [Parallel]. You can also view it without the image viewer.
4. **Press the OK button.**
   The 3D image mode screen appears again.

Take the pictures

5. **Press the four-way controller (▼) in Capture mode.**
   The virtual mode dial appears.
6. **Use the four-way controller (◄►) to select the 3D mode 3D .**

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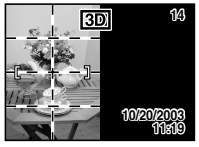
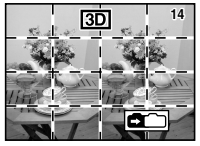
7 **Press the OK button.**
The screen for taking the first image appears in the left half of the LCD monitor.

8 **Take the first image.**
Hold the camera so that the subject is in the middle of the left half of the screen and press the shutter release button. The image is displayed in the left half of the LCD monitor. The right half of the screen is for taking the second image.



9 **Move the camera to the right without changing your stance.**

10 **Take the second image.**
Make sure that the subject is in the middle of the right half of the screen and press the shutter release button.



memo

- To cancel the 3D image mode change to another Capture mode.
- A clear three-dimensional effect will not be achieved if the two images are taken in widely different positions (heights) or are not straight. When taking a person, you are recommended to ask your model to stay as still as possible and to take the second picture as quickly as you can. It is easier to take the pictures if you use a tripod or appropriate base.
- As a guide, the camera should be moved about 1/40 of the distance between the camera and the subject. For example, if the subject is 3m away, the distance the camera should be moved will be 3m÷40=7.5cm.
  However, as the way people see three-dimensional images differs from person to person, there is no need to be too concerned. Refer to the table below for a simple guide to how far to move the camera.

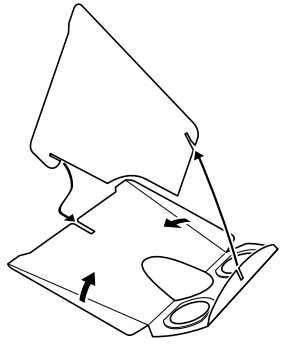
Distance to subject	0.1 m	0.3 m	0.5 m	1 m	3 m	5 m
Camera movement	0.5 cm	1 cm	1.5 cm	2.5 cm	7.5 cm	13 cm

● **Viewing 3D pictures by the parallel method and cross method**

As our eyes are positioned about 6 – 7 cm apart, there is a very slight deviation between what we see with our right eye and what we see with our left eye. The difference is processed by our brain to produce a three-dimensional image. This principle is applied to taking and viewing 3D pictures.
3D pictures can be viewed by the parallel method where the left and right lines of vision are virtually parallel, as when looking at a distant scene, or the cross method where the left and right lines of vision are crossed, as when you cross your eyes. A certain amount of practice may be necessary to view 3D pictures without using the viewer.

● **How to Assemble the 3D Image Viewer**

Assemble the 3D image viewer supplied with the camera as shown below.



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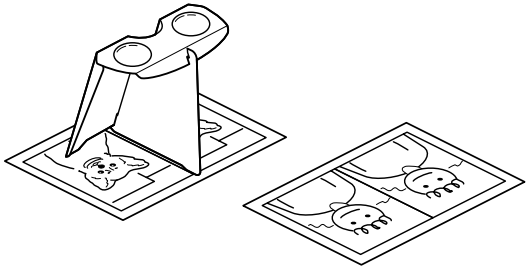
● **How to view 3D pictures using the 3D image viewer**
Print out the pictures so that they are about 11cm or 12cm wide and place the divider of the 3D image viewer in the middle of the two.



memo

As the distance between the left and right eyes differs from person to person, some people may have difficulty obtaining a three-dimensional effect even when looking at prints that are the same size. It may be especially difficult if the pictures are very large or very small. Try different sizes until the right effect is achieved.

Caution

- Never look at the sun through the 3D image viewer.
- Do not leave the 3D image viewer where it is exposed to direct sunlight as this may lead to fire.

● **Example of a 3D picture**